From the INTERNATIONAL SEARCHING AUTHORITY			
To: SHMUEL LIVNAT	PCT		
MCKENNA LONG & ALDRIDGE LLP 1900 K STREET, NW. WASHINGTON, DC 20006	NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL SEARCH REPORT AND THE WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY, OR THE DECLARATION (PCT Rule 44.1)		
	Date of mailing (dcy/month/year) 2 5 MAR 2005		
Applicant's or agent's file reference 2240-201352	FOR FURTHER ACTION See paragraphs 1 and 4 below		
nternational application No. International filing date (day/month/year) 24 February 2004 (24.02.2004)			
Applicant THE JOHN HOPKIN UNIVERSITY			
The applicant is hereby notified that the international sear have been established and are transmitted herewith.	rch report and the written opinion of the International Searching Authority		
	Filing of amendments and statement under Article 19: The applicant is entitled, if he so wishes, to amend the claims of the international application (see Rule 46):		

Where? Directly to the International Bureau of WIPO, 34 chemin des Colombettes 1211 Geneva 20, Switzerland, Facsimile No.: +41 22 740 14 35

search report.

For more detailed instructions, see the notes on the accompanying sheet.

- The applicant is hereby notified that no international search report will be established and that the declaration under Article 17(2)(a) to that effect and the written opinion of the International Searching Authority are transmitted herewith.
 - With regard to the protest against payment of (an) additional fee(s) under Rule 40.2, the applicant is notified that: the protest together with the decision thereon has been transmitted to the International Bureau together with the applicant's

When? The time limit for filing such amendments is normally two months from the date of transmittal of the international

request to forward the texts of both the protest and the decision thereon to the designated Offices. no decision has been made yet on the protest: the applicant will be notified as soon as a decision is made.

4. Reminders

Shortly after the expiration of 18 months from the priority date, the international application will be published by the International Bureau. If the applicant wishes to avoid or postpone publication, a notice of withdrawal of the international application, or of the priority claim, must reach the International Bureau as provided in Rules 90bis.1 and 90bis.3, respectively, before the completion of the technical preparations for international publication.

The applicant may submit comments on an informal basis on the written opinion of the International Searching Authority to the International Bureau. The International Bureau will send a copy of such comments to all designated Offices unless an international preliminary examination report has been or is to be established. These comments would also be made available to the public but not before the expiration of 30 months from the priority date.

Within 19 months from the priority date, but only in respect of some designated Offices, a demand for international preliminary examination must be filed if the applicant wishes to postpone the entry into the national phase until 30 months from the priority date (in some Offices even later); otherwise, the applicant must, within 20 months from the priority date, perform the prescribed acts for entry into the national phase before those designated Offices.

In respect of other designated Offices, the time limit of 30 months (or later) will apply even if no demand is filed within 19 months. See the Annex to Form PCT/IB/301 and, for details about the applicable time limits, Office by Office, see the PCT Applicant's Guide,

Volume II, National Chapters and the WIPO Internet site.

Name and mailing address of the ISA/ US Authorized officer Jame lad Mail Stop PCT, Attn: ISA/US Commissioner for Patents Amy J Nelson P.O. Box 1450 Alexandria, Virginia 22313-I450 Telephone No. (571) 272-0547

Facsimile No. (703) 305-3230 Form PCT/ISA/220 (January 2004)

(See notes on accompanying sheet)

02246.201352 JHV-16/PCT 32L

From the INTERNATIONAL SEARCHING AUTHORITY	27
To: SHMUEL LIVNAT	PCT 37
MCKENNA LONG & ALDRIDGE LLP 1900 & STREET, N.W. WASHINGTON, DC 20006	NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL SEARCH REPORT AND THE WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY, OR THE DECLARATION
	(PCT Rule 44.1)
	Date of mailing (day/month/year)
Applicant's or agent's file reference 2240-201352	FOR FURTHER ACTION See paragraphs 1 and 4 below
International application No. PCT/US04/05292	International filing date (day/month/year) 24 February 2004 (24.02.2004)
Applicant THE JOHN HOPKIN UNIVERSITY	
	rch report and the written opinion of the International Searching Authority
Filing of amendments and statement under Article 19 The applicant is entitled, if he so wishes, to amend the cla	
When? The time limit for filing such amendments is search report.	s normally two months from the date of transmittal of the international
Where? Directly to the International Bureau of WIPC 1211 Geneva 20, Switzerland, Facsimile No	
For more detailed instructions, see the notes on the	accompanying sheet.
	ch report will be established and that the declaration under he International Searching Authority are transmitted herewith.
With regard to the protest against payment of (an) addi	itional fee(s) under Rule 40.2, the applicant is notified that:
the protest together with the decision thereon has be request to forward the texts of both the protest and t	en transmitted to the International Bureau together with the applicant's he decision thereon to the designated Offices.
no decision has been made yet on the protest; the ap	plicant will be notified as soon as a decision is made.
Reminders Shortly after the expiration of 18 months from the priority date	e, the international application will be published by the International
Bureau. If the applicant wishes to avoid or postpone publication	e, the international application will be published by the international on, a notice of withdrawal of the international application, or of the n Rules 90bis. I and 90bis. 3, respectively, before the completion of the
International Bureau. The International Bureau will send a cop- preliminary examination report has been or is to be established.	the written opinion of the International Searching Authority to the y of such comments to all designated Offices unless an international These comments would also be made and the problem of the comments would also be made and the problem of the comments would also be made and the problem of the comments would also be made and the comments would be a second with the comments would be commented as a second with the comments would be commented as a second with the comments would be commented as a second with the comments would be commented as a second with the comments would be commented as a second with the comments would be commented as a second with the comments would be commented as a second with the comments would be commented as a second with the comment with the comment with the commented with the comment with the commented with the commente
before the expiration of 30 months from the priority date. Within 19 months from the priority date, but only in respect	of some designated Office, John ECEUME Injury
examination must be filed if the applicant wishes to postpone the (in some Offices even later); otherwise, the applicant must, with entry into the national phase before those designated Offices,	e entry into the national phase that 80 months from the priority date hin 20 months from the priority date, perform the prescribed total for APR 06 05
In respect of other designated Offices, the time limit of 30 month	s (or later) will apply even if a destand is filed within 19 morths.
See the Annex to Form PCT/IB/301 and, for details about the ap Volume II, National Chapters and the WIPO Internet site.	plicable time limits, Office by Office see the PCH Amilian Stuid. DATE DOCKETED: 4/1/05
ame and mailing address of the ISA/ US Mail Stop PCT, Attn: ISA/US	Authorized officer BOCKETED BY: Alt by John John
Commissioner for Patents P.O. Box 1450	Amy J Nelson DUE DATE: 5/25/05
Alexandria, Virginia 22313-1450 csimile No. (703) 305-3230	Telephone No. 571) 272-0547 5/25/05
n PCT/ISA/220 (January 2004)	(See notes on accompanying theet) ATTORNEY CONFIRMATION:
	McKENNA LONG & ALDRIDGE

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 2240-201352		e Form PCT/ISA/220 there applicable, item 5 below			
International application No. PCT/US04/05292	ACTION as well as, w International filing date (day/month/year) 24 February 2004 (24.02.2004)	(Earliest) Priority Date (day/month/year) 24 February 2003 (24.02.2003)			
Applicant THE JOHN HOPKIN UNIVERSITY					
This international search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.					
This international search report consists It is also accompanied	of a total of sheets. I by a copy of each prior art document cited	I in this report.			
	international search was carried out on the battless otherwise indicated under this item.	ssis of the international application in the			
The international to this Authority		lation of the international application furnished			
b. With regard to any nucleotic	de and/or amino acid sequence disclosed in	the international application, see Box No. I.			
	unsearchable (See Box No. II)				
Unity of invention is lackin With regard to the title,	g (See Box No. III)				
the text is approved as subm	itted by the applicant.				
	by this Authority to read as follows:				
	by and reason, to reas at rono no.				
	•				
With regard to the abstract,					
the text is approved as submi	tted by the applicant.				
the text has been established,	according to Rule 38.2(b), by this Authority the date of mailing of this international search				
With regard to the drawings,					
	ublished with the abstract is Figure No	-			
as suggested by the	••				
	uthority, because the applicant failed to sugg	· -			
	uthority, because this figure better characteris	zes the invention.			
b. none of the figures is to be pu	iblished with the abstract.				

Form PCT/ISA/210 (first sheet) (January 2004)

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US04/05292

Box No. II	Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)
This internati	ional search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
1.	Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:
2.	Claims Nos.: because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:
3.	Claims Nos.: 29,30,31,42,66,67 because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
Box No. III	Observations where unity of invention is lacking (Continuation of item 3 of first sheet)
This Internation	onal Searching Authority found multiple inventions in this international application, as follows:
1.	As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
2.	As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
	As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:
	No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:
Remark on Pr	otest The additional search fees were accompanied by the applicant's protest.
	No protest accompanied the payment of additional search fees.

Form PCT/ISA/210 (continuation of first sheet(2)) (January 2004)

INTERNATIONAL SEARCH REPORT

International application No.

Relevant to claim No.

1-28,32-41,43-65

PCT/US04/05292

	A.	CLASSIFICATION OF SUBJECT MATTER	
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: C12N 15/00; A01N 43/04; C07H 21/02 IPC(7)

US CL : 435/320.1:514/44: 536/23.1:

DOCUMENTS CONSIDERED TO BE RELEVANT

According to International Patent Classification (IPC) or to both national classification and IPC

FIELDS SEARCHED

Category *

XP

Minimum documentation searched (classification system followed by classification symbols)

U.S.: 435/320.1;514/44; 536/23.1;

document

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) Please See Continuation Sheet

Citation of document, with indication, where appropriate, of the relevant passages

KIM et al. Enhancing DNA vaccine potency by coadminstration of DNA encoding anti-

apoptotic proteins. J. Clin. Invest. July 2003. Vol. 112, No.1, pages 109-117, see entire

	XP	KIM et al. Enhancing DNA Vaccine Potency by Combining a strategy to Prolong Dendritic Cell Life with Intracellular Targeting Strategies. J. Immunol. September 2003. Vol 171, No. 6, pages 2970-2976, see entire document			
	Y	US 20020091246 A1 (PARDOLL et al.) 11 July 2002 (11.7.2002), see entire document 1-28,32-41,43-65			
	Y	US 5,834,309 (THOMPSON et al.) 10 November 19	98 (10.11	1998), see entire document	1-28,32-41,43-65
	Α	Co-transfection with cDNA encoding the Bcl family efficiency of transfection in primary fetal neural sten 2002, Vol. 117, No. 2, pages 153-158, see entire doc	cells. J. N		1-28,32-41,43-65
	Further	documents are listed in the continuation of Box C.		See patent family annex.	
"A"		pecial categories of cited documents: defining the general state of the art which is not considered to be of	"T"	later document published after the inte date and not in conflict with the applic principle or theory underlying the inve	ation but cited to understand the
"E"				document of particular relevance; the c considered novel or cannot be consider when the document is taken alone	laimed invention cannot be red to involve an inventive step
"L"	establish the publication date of another citation or other special reason (as specified)		"Y"	document of particular relevance; the c considered to involve an inventive step combined with one or more other such	when the document is
"O"	document	referring to an oral disclosure, use, exhibition or other means		being obvious to a person skilled in the	
«P"	document priority da	published prior to the international filing date but later than the te claimed	"&"	document member of the same patent	family .
		tual completion of the international search 2004 (16.12.2004)	Date of	nailing of the international searce 5 MAR 2005	h report
		iling address of the ISA/US	Authoria	red officer Januar Sha	100
' ' ' '	Mail Stop DCT Attn: ISA/US			Jurilla Sice	John Marie

Amy J Nelson

Telephone No. (571) 272-0547

Alexandria, Virginia 22313-1450 Form PCT/ISA/210 (second sheet) (January 2004)

Facsimile No. (703) 305-3230

Name and mailing address of the ISA/US Mail Stop PCT, Attn: ISA/US

Commissioner for Patents P.O. Box 1450

	INTERNATIONAL SEARCH REPORT	PCT/US04/05292	
		•	
Continuation of East: USPATFU	of B. FIELDS SEARCHED Item 3: TLL,USPGPUB,EPO,DERWENT ine ti-apoptotic, BCL-x, vaccine, co-transfection		
Search terms:an	ti-apoptotic, BCL-x, vaccine, co-transfection		

From the INTERNA	TIONAL SEARC	HING AUTH	ORITY		
To: SHMUEL LIVNAT MCKENNA LONG & ALDRIDGE LLP 1900 K STREET, N.W. WASHINGTON, DC 20006		PCT WRITTEN OPINION OF THE			
WASHIN	IGTON, DC 200			INTERNATIO	ONAL SEARCHING AUTHORITY
					(PCT Rule 43bis.1)
				Date of mailing (day/month/year)	25 MAR 2005
Applicant	t's or agent's file r	reference		FOR FURTEER	ACTION See paragraph 2 below
2240-201					
Internatio	nal application No	э.	International filing date	(day/month/year)	Priority date (day/month/year)
PCT/US0		· · · · · · · · (mo)	24 February 2004 (24.02		24 February 2003 (24.02.2003)
1			or both national classificati		
IPC(7): C Applicant		43/04; C07H	2I/02 and US Cl.: 435/32	0.1;514/44; 536/23.1	[;
THE JOH	N HOPKIN UNIV	VERSITY			
I. This o	opinion contains i	ndications rela	ting to the following item:	s:	
\boxtimes	Box No. I	Basis of the	opinion		
	Box No. II	Priority			
Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability			tive step and industrial applicability		
Box No. IV Lack of unity of invention					
Box No. V Reasoned statement under Rule 43bis. I(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement					
	Box No. VI	Certain docu	iments cited		
	Box No. VII	Certain defe	cts in the international app	olication	
	Box No. VIII	Certain obse	rvations on the internation	nal application	
2. FUR	THER ACTION	N			
If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen PEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered.					
If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCTISAN220 or before the expiration of 22 months from the priority date, whichever expirs all only the provided of the					
For further options, see Form PCT/ISA/220.					
3. For further details, see notes to Form PCT/ISA/220.					
Name and mailing address of the ISA/US Authorized officer					
Mail Stop PCT, Attn: ISA/US				Amy J Nelson	Jamelah Shabaran for
Commissioner for Patents P.O. Box 1450				Auty J Neison	
Alexandria, Virginia 22313-1450 Facsimile No. (703) 305-3230 Tel				Telephone No. (57	71) 272-0547
D.Omara	10000				

Form PCT/ISA/237 (cover sheet) (January 2004)

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/US04/05292

Box N	o. I Basis of this opinion
	regard to the language, this opinion has been established on the basis of the international application in the language in which it filed, unless otherwise indicated under this item.
	This opinion has been established on the basis of a translation from the original language into the following language, which is the language of a translation furnished for the purposes of international search (under Rules 12.3 and 23.1(b)).
	regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed tion, this opinion has been established on the basis of:
a.	type of material
	a sequence listing
	table(s) related to the sequence listing
b.	format of material
	in written format
	in computer readable form
c.	time of filing/furnishing .
	contained in international application as filed.
	filed together with the international application in computer readable form.
	furnished subsequently to this Authority for the purposes of search.
3.	In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
4. Additi	onal comments:

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/US04/05292

В	ox N	o. III Non-establishment of opinion	with regard to novelty, inventive step and industrial applicability
		questions whether the claimed invention ap strially applicable have not been examined	pears to be novel, to involve an inventive step (to be non-obvious), or to be in respect of:
		the entire international application	
	\boxtimes	claims Nos. 29-31,42,66 and 67	
	beca	use:	
	ш	the said international application, or the s an international preliminary examination	aid claim Nos relate to the following subject matter which does not require (specify):
		•	
	\boxtimes	the description, claims or drawings (Indic that no meaningful opinion could be form	ate particular elements below) or said claims Nos. 29-31.42.66 and 67 are so unclear sed (specify):
			7 were not examined because they are dependent claims not drafted in accordance
		with the second and third sentences of Ru	le 6.4(a).
[the claims, or said claims Nos are formed.	so inadequately supported by the description that no meaningful opinion could be
		no international search report has been est	ablished for said claims Nos
		the nucleotide and/or amino acid sequent Administrative Instructions in that:	ace listing does not comply with the standard provided for in Annex C of the
		the written form	has not been furnished
			does not comply with the standard
		the computer readable form	has not been furnished does not comply with the standard
			does not comply with the standard
			amino acid sequence listing, if in computer readable form only, do not comply with
٢	_	the technical requirements provided for in See Supplemental Box for further details.	Annex C-bis of the Administrative Instructions.
L		oce supplemental box for further details.	

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/US04/05292

Box No. V Reasoned statement under Rule 43 bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement 1. Statement Novelty (N) Claims 1-28, 32-41, 43-65 Claims NONE _NO __YES Inventive step (IS) Claims 10,14,20-28,40,41,53 and 55 Claims 1-9,11-13,15-19,32-39,43-52,54 and 56-65 NO Claims 1-28,32-41 and 43-65 _YES Industrial applicability (IA) Claims NONE NO 2. Citations and explanations: Please See Continuation Sheet

International application No. PCT/US04/05292

WRITTEN OPINION OF THE

Supplemental Box
In case the space in any of the preceding boxes is not sufficient.

V. 2. Citations and Explanations:

Claims 1-9,11-13,15-19,32-39,43-52,54 and 5-65 lack an inventive step under PCT Article 33(3) as being obvious over US patient 5,834,309 (September 24 2002), hereafter referred to as THOMPSON et al., in view of US patient application US 20020091246 A1 (July 11 2002), hereafter referred to as PARDOLL et al.

THOMPSON et al., provides guidance on the use of a vector encoding an anti-apoptotic protein, such as human BCL-2 (pgph 2, 8) or BCl-x (pgph 11). Where the vector encoded anti-apoptotic protein (pgph2) promotes or inhibits cell death (pgph 8). THOMPSON et al., also teaches that the vector comprises a polynucleotide coding sequence operatively linked to an enhancer-promoter. (pgph 11), suspended in a pharmaceutically acceptable carrier such as saline (pgph 161). Further, THOMPSON et al., teaches the administration of the vector to tumor targets (pgph 39) leukocytes, tumor infiltrating lymphocytes and T cells (pgph 148). Tumor infiltrating lymphocytes included dendritic cells and other APCs. The expression of bel-2 and bel-x during T cell development and activation is important for T cell survival (pgphs, 165, 188, 191).

PARDOLL et al. teaches the administration of a vaccine composition comprising an expression vector for T cell activation (paghes 20, 27) against viral or canner antigens (paghes 13, 27) against viral or canner antigens (paghes 13, 27) also planted or a viral vector (pagh 40) had encodes any of the following: the Fix-3 ligand (pagh 152); the HSV-1 protein VP22; and VP22 linked to the HPV E7 antigen (pagh 153). Where the vector includes a promoter region, which can function as a tissue specific promoter operably linked to the encoded protein (pagh 63). Where the vaccine is injected into a mammal, such as a human (phph 114, 160) intradermally, intravenously, intramuscularly, intravenously intramuscularly, and the production of the protein 1201 in administrationally or probustnessors (protein 1201 in administrationally or probustnessors) (protein 1201 in administrational or probustnessors) (protein 1201 in administrational or protein 1201 in administrational or protein 1201 in administrational or protein 1201 in administration 1201

Based on the guidance provided by PARDOLL et al., it would be obvious to the person of ordinary skill in the art at the time the invention was made to moufly the teachings of THOMPSON et al., by administering a vaccine composition comprising both the vector encoding an immunogen taught by PARDOLL et al. and vector encoding a unit-spoptotic protein taught by THOMPSON et al., or a vaccine composition comprising a single plasmid encoding both the immunogen and the anti-apoptotic protein to a human intratumerally in order to treat cancer. The practitioner would be motivated to administer a vaccine composition comprising polyaucleotides encoding both an immunogen and an anti-apoptotic protein in force to stimulate a T cell response with the anti-apoptotic protein in comprising expanse reasonable expectation of success because administering a vaccine composition comprising either a single vector encoding the immunogen taught by PARDOLL et al. and the anti-apoptotic protein and they by THOMPSON et al., or vaccine composition comprising separate vectors encoding each protein would be a minor modification of the compositions that encode multiple proteins is well known in the field.

Claims 10, 14, 20-28, 40-41, 53, and 55 meet the criteria set out in PCT Article 33(2)-(3), because the prior art does not teach or fairly suggest that the epitope is between 8 and 11 amino acid residues in length, or that the pathogen is a bacterium, or that the composition is administered by particle bombardment.

NOTES TO FORM PCT/ISA/220 (continued)

The letter must indicate the differences between the claims as filed and the claims as amended. It must, in particular, indicate, in connection with each claim appearing in the international application (it being understood that identical indications concerning several claims may be grouped), whether

- (i) the claim is unchanged:
- (ii) the claim is cancelled;
- (iii) the claim is new;
- (iv) the claim replaces one or more claims as filed;
- (v) the claim is the result of the division of a claim as filed.

The following examples illustrate the manner in which amendments must be explained in the accompanying letter:

- [Where onginally there were 48 claims and after amendment of some claims there are 51]: "Claims 1 to 29, 31, 32, 34, 35, 37 to 48 replaced by amended claims bearing the same numbers; claims 30, 33 and 36 unchanged; new claims 49 to 51 added."
- [Where originally there were 15 claims and after amendment of all claims there are 11]: "Claims 1 to 15 replaced by amended claims 1 to 11."
- [Where originally there were 14 claims and the amendments consist in cancelling some claims and in adding new claims]:
 - "Claims 1 to 6 and 14 unchanged; claims 7 to 13 cancelled; new claims 15, 16 and 17 added." or "Claims 7 to 13 cancelled; new claims 15, 16 and 17 added; all other claims unchanged."
- [Where various kinds of amendments are made]:
 "Claims 1-10 unchanged; claims 11 to 13, 18 and 19 cancelled; claims 14, 15 and 16 replaced by amended claim 14; claim 17 subdivided into amended claims 15, 16 and 17; new claims 20 and 21 added."

"Statement under Article 19(1)" (Rule 46.4)

The amendments may be accompanied by a statement explaining the amendments and indicating any impact that such amendments might have on the description and the drawings (which cannot be amended under Article 19(1)).

The statement will be published with the international application and the amended claims.

It must be in the language in which the international application is to be published.

It must be brief, not exceeding 500 words if in English or if translated into English.

It should not be confused with and does not replace the letter indicating the differences between the claims as filed and as amended. It must be filed on a separate sheet and must be identified as such by a heading, preferably by using the words "Statement under Article 19(1)."

It may not contain any disparaging comments on the international search report or the relevance of citations contained in that report. Reference to citations, relevant to a given claim, contained in the international search report may be made only in connection with an amendment of that claim.

Consequence if a demand for international preliminary examination has already been filed

If, at the time of filing any amendments and any accompanying statement, under Article 19, a demand for international preliminary examination has already been submutted, the applicant must preferably, at the time of filing the amendments (and any statement) with the International Bureau, also file with the International Perliminary Examining Authority a copy of such amendments (and of any statement) and, where required, a translation of such amendments for the procedure before that Authority (see Rules 55.3(a) and 62.2, first sentence). For firsther information, see the Notes to the dereand form (PC-17PEA/19), and 62.2, first sentence.

Consequence with regard to translation of the international application for entry into the national phase

The applicant's attention is drawn to the fact that, upon entry into the national phase, a translation of the class as amended under Article 19 may have to be furnished to the designated/elected Offices, instead of, or in addition to, the translation of the claims as filed.

For further details on the requirements of each designated elected Office, see the PCT Applicant's Guide, Volume II.

NOTESTO FORM PCT/ISA/220

These Notes are intended to give the basic instructions concerning the filing of amendments under Article 19. The Notes are based on the requirements of the Patent Cooperation Treaty, the Regulations and the Administrative Instructions under that Treaty. In case of discrepancy between these Notes and those requirements, the latter are anolicable. For more detailed information see slots the PCT shortchart's Guide, a subdiction of WIPO.

In these Notes, "Article," "Rule" and "Section" refer to the provisions of the PCT, the PCT Regulations and the PCT Administrative Instructions, respectively.

INSTRUCTIONS CONCERNING AMENDMENTS UNDER ARTICLE 19

The applicant has, after having received the international search report, one opportunity to amend the claims of the international application. It should however be emphasized that, since all parts of the international application (claims description and drawings) may be amended during the international preliminary examination procedure, there is usually no need to file timendments of the claims under Article 19 except where, e.g. the applicant wans the latter to be published for the purposes of provisional protection or has another reason for amending the claims before international publication. Furthermore, it should be emphasized that provisional protection is available in some States only.

What parts of the international application may be amended?

Under Article 19, only the claims may be amended

During the international phase, the claims may also be amended or further amended) under Article 34 before the International Preliminary Examining Authority. The description and drawings may only be amended under Article 34 before the International Preliminary Examining Authority.

Upon entry into the national phase, all parts of the international application may be amended under Article 28 or, where applicable, Article 41.

When? Within 2 months from the date of transmittal of the international search report or 16 months from the priority date, whichever time limit expires later. It should be noted, however, that the amordments will be considered as having been received by are received by the International Bureau after the expiration of the applicable time limit but before the completion of the technical preparations for international publication (Rule 46.1).

Where not to file the amendments?

The amendments may only be filed with the International Bureau and not with the receiving Office or the International Scarching Authority (Rule 46.2).

Where a demand for international preliminary examination has been/is filed, see below.

How? Either by cancelling one or more entire claims. By adding one or more new claims or by amending the text of one or more of the claims as filed.

A replacement sheet must be submitted for each sheet of the claims which, on account of an amendment or amendments, differs from the sheet originally filed.

All the claims appearing on a replacement sheet must be numbered in Arabic numerals. Where a claim is cancelled, no renumbering of the other claims is required. In all cases where claims are renumbered, they must be renumbered consecutively (Administrative Instructions, Section 205(b)).

The amendments must be made in the language in which the international application is to be published.

What documents must/may accompany the amendments?

Letter (Section 205(b)):

The amendments must be submitted with a letter.

The letter will not be published with the international application and the amended claims. It should not be confused with the "Statement under Article 19(1)" (see below, under "Statement under Article 19(1)").

The letter must be in English or French, at the choice of the applicant. However, if the language of the international application is English, the letter must be in English; if the language of the international application is French, the letter must be in French.